

1.3 - Order of Operations

P
Parentheses

E
Exponents

R
Radicals

M
Multiplication

D
Division

A
Addition

S
Subtraction

Ex 1: Evaluate the expressions when $x = 3$

$$3(3^2) + 1$$
$$3x^2 + 1$$

$$3 \cdot 9 + 1$$

$$27 + 1$$
$$= 28$$

$$27 \div x^2 - 1$$

$$27 \div 9 - 1$$
$$3 - 1 = \boxed{2}$$

Ex 3:

$$[(8-4)^2 - 3] + 10 \div 2$$

$$[(4)^2 - 3] + 10 \div 2$$

$$[16 - 3] + 10 \div 2$$

$$13 + 10 \div 2$$

$$13 + 5$$

$$(18)$$

Homework: p.19 #13-37 all